

LCA 2200 Operational Description

The Wintecronics Co., Ltd. Model: LCA2200 (referred to as the EUT in this report) is a Transmitter and Receiver of car alarm security system. It offers wireless remote control, ideal for use in vehicle security system to activate the function of center door lock control system and car searching except the alarm system.

A major technical descriptions of EUT is described as following:

A). Operation Frequency: 433.92 MHz

B). Modulation : Pulse Modulation

C). Antenna Designation: Non-User Replaceable (Fixed)

D). Power Supply: 12V, Battery Operated.

E). Receiver type : Superheterodyne

Fundamental Frequency	433.92MHz
Power Source	12V Battery Operated
Transmitting Time	Periodic $\leq$ 5 seconds
Associated Receiver	FCC DOC

The 2-way pager is a low-powered transmitter device used in monitoring the automobile security status as well as in remotely arming/disarming car security system and other optional features like vibration or audible beeping warning sound during alert mode. Its features and functions are described in the separate attached sheet.

The transmitter of this product is installed inside the car and powered by 12VDC from the cigarette lighter. The antenna used is helix type antenna. Only one carrier frequency, 433.92MHz, is provided. The transmitter includes some sensors such as vibration sensor to detect any abnormal situation of the car. The receiver is carried by the user for receiving the signal from the transmitter.

There are total 5 buttons which, if pressed, will produce the digital control signals and modulate the carrier signal. The carrier signal is generated by a crystal oscillator/amplifier circuit composed of a 433.92 MHz crystal and an pnp transmitter. The modulated output of the RF amplifier stage is coupled to the coil.

All the tuning and verification are done by manufacturer during the production process and no adjustment is allowed by any consumer. No external ground is needed in such device.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference: and
- (2) This device must accept any interference received: including interference that may cause undesired operation.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. Such modification could void the User's authority to operate the equipment.